point system™ slide-in-module media converter

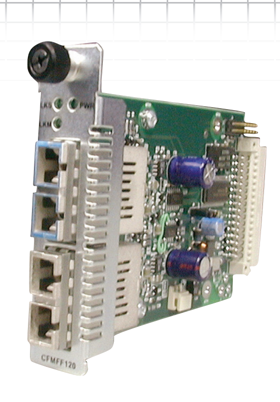


Gigabit Ethernet/Fiber Channel 1000BASE-SX to 1000BASE-LX

see also: **Gigabit Etherner Stand-Alone Optical Mode Converter**

CFMFF1xxx-22x

Gigabit Ethernet/Fiber Channel Optical Mode Converter

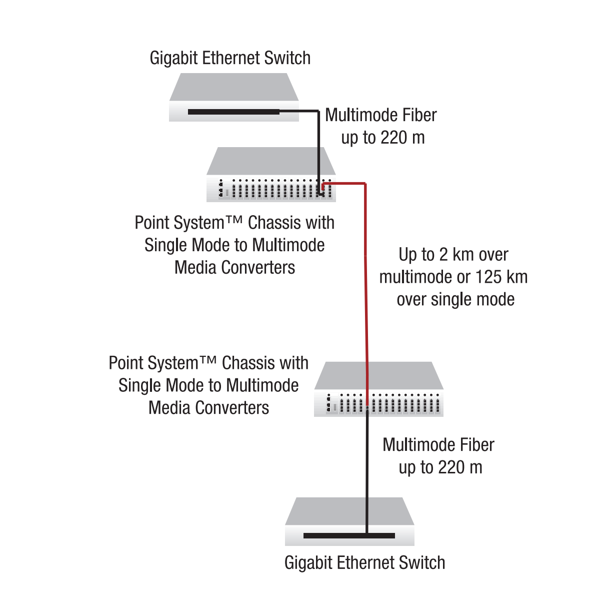


Used individually or in pairs, this media converter can extend Gigabit Ethernet over single mode fiber **up to 125 km**. Convert 1000BASE-SX ports on a Gigabit Ethernet switch to 1000BASE-LX on a port-by-port basis. Ideal for campus area networks or other applications requiring the distance advantages of single mode fiber.

Features

- Link Pass Through
- Protocol Transparency
- Extended Multimode SX capability *(up to 2 km 62.5/125 µm fiber)*
- Remote Firmware Upgrade
- Card manageability:
  - Multimode signal detect
  - Hardware/software mode
  - Fiber port enable/disable multimode
  - Fiber port enable/disable single mode
- Can be used with any Point System™ Chassis

Extend Network Distance



Specifications

Standards	IEEE Std. 802.3
3-position Jumper	**Hardware:** Software mode is disabled **Software:** Converter mode is determined by most recently saved on-board microprocessor settings
Status LEDs	**PWR (Power):** Steady green LED indicates connection to external AC power **LKS (Single mode fiber link):** Steady LED indicates single mode fiber link **LKM (Multimode fiber link):** Steady LED indicates multimode fiber link
Dimensions	**Width:** 0.86" [22 mm] **Depth:** 5.0" [127 mm] **Height:** 3.4" [86 mm]
Power Consumption	3.5 Watts
Environment	See chassis specifications
Shipping Weight	1 lb. [0.45 kg]
Regulatory Compliance	UL LIsted; C-UL Listed (Canada); CISPR/EN55022 Class A & B + EN55024; FCC Class A & B; CE Mark
Warranty	Lifetime

Ordering Info

CFMFF1313-220
1000BASE-SX 850 nm multimode (SC)
[62.5/125 µm fiber: 220 m / 722 ft.]
[50/125 µm fiber: 550 m / 1804 ft.]
Link Budget 7.0 dB
to 1000BASE-SX 850 nm multimode (SC)
[62.5/125 µm fiber: 220 m / 722 ft.]
[50/125 µm fiber: 550 m / 1804 ft.]
Link Budget 7.0 dB

CFMFF1324-220
1000BASE-SX 850 nm multimode (SC)
[62.5/125 µm fiber: 220 m / 722 ft.]
[50/125 µm fiber: 550 m / 1804 ft.]
Link Budget 7.0 dB
to 1000BASE-LX 1310 nm Extended MM (62.5/125 µm fiber only) (SC)
[up to 2 km] Link Budget: 7.0 dB

CFMFF1424-220
1000BASE-LX 1310 nm SM (SC)
[10 km/6.2 mi.] Link Budget: 7.0 dB
to 1000BASE-LX 1310 nm Extended MM (62.5/125 µm fiber only) (SC)
[up to 2 km] Link Budget: 7.0 dB

CFMFF1314-220
1000BASE-SX 850 nm multimode (SC)
[62.5/125 µm fiber: 220 m / 722 ft.]
[50/125 µm fiber: 550 m / 1804 ft.]
Link Budget: 7.0 dB
to 1000BASE-LX 1310 nm SM (SC)
[10 km/6.2 mi.] Link Budget: 7.0 dB

CFMFF1414-220
1000BASE-LX 1310 nm SM (SC)
[10 km/6.2 mi.] Link Budget: 7.0 dB
to 1000BASE-LX 1310 nm SM (SC)
[10 km/6.2 mi.] Link Budget: 7.0 dB

CFMFF1315-220
1000BASE-SX 850 nm multimode (SC)
[62.5/125 µm fiber: 220 m / 722 ft.]
[50/125 µm fiber: 550 m / 1804 ft.]
Link Budget: 7.0 dB
to 1000BASE-LX 1310 nm SM (SC)
[25 km/15.5 mi.] Link Budget: 15.0 dB

CFMFF1317-220
1000BASE-SX 850 nm multimode (SC)
[62.5/125 µm fiber: 220 m / 722 ft.]
[50/125 µm fiber: 550 m / 1804 ft.]
Link Budget: 7.0 dB
to 1000BASE-LX 1550 nm SM (SC)
[65 km/40.4 mi.] Link Budget: 20.0 dB

CFMFF1335-220
1000BASE-SX 850 nm multimode (SC)
[62.5/125 µm fiber: 220 m / 722 ft.]
[50/125 µm fiber: 550 m / 1804 ft.]
Link Budget: 7.0 dB
to 1000BASE-LX 1550 nm SM (SC)
[125 km/77.7 mi.] Link Budget: 27.0 dB

Single Fiber Products
Recommended use in pairs

CFMFF1329-220
1000BASE-SX 850 nm multimode (SC)
[62.5/125 µm fiber: 220 m / 722 ft.]
[50/125 µm fiber: 550 m / 1804 ft.]
Link Budget: 7.0 dB
to 1000BASE-LX 1310 nm TX / 1550 nm RX single fiber single mode (SC)
[20 km/12.4 mi.] Link Budget: 13.0 dB

CFMFF1329-221
1000BASE-SX 850 nm multimode (SC)
[62.5/125 µm fiber: 220 m / 722 ft.]
[50/125 µm fiber: 550 m / 1804 ft.]
Link Budget: 7.0 dB
to 1000BASE-LX 1550 nm TX / 1310 nm RX single fiber single mode (SC)
[20 km/12.4 mi.] Link Budget: 13.0 dB

CFMFF1329-222
1000BASE-SX 850 nm multimode (SC)
[62.5/125 µm fiber: 220 m / 722 ft.]
[50/125 µm fiber: 550 m / 1804 ft.]
Link Budget: 7.0 dB
to 1000BASE-LX 1310 nm TX / 1550 nm RX single fiber single mode (SC)
[40 km/24.9 mi.] Link Budget: 20.0 dB

CFMFF1329-223
1000BASE-SX 850 nm multimode (SC)
[62.5/125 µm fiber: 220 m / 722 ft.]
[50/125 µm fiber: 550 m / 1804 ft.]
Link Budget: 7.0 dB
to 1000BASE-LX 1550 nm TX / 1310 nm RX single fiber single mode (SC)
[40 km/24.9 mi.] Link Budget: 20.0 dB



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